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East Germany

[REDACTED]
(Part One of two)

50X1-HUM

[REDACTED] the Factory Local of the East German trade organiza-
tion on the weather service [REDACTED]

50X1-HUM

Meteorologist Haarlaender in his report on the theory of stationary anti-cyclones stated that the differential equations for a geopotential field are solvable in x,y,p coordinates and will enable one to compute spatial temperature distribution, divergence of main isobaric surfaces, vertical motion, and distribution of heat sources and depressions over stationary anticyclones. He considers as possible the construction of analytical models of the spatial distribution of meteorological data and suggests the construction of models for the instability of planetary waves, i.e. the covering of full-scale forecasting.

Dr. Ponndorf reported on the baric preparation for cold or mild winter forecasting that is based on the baric behavior of late fall, although accurate forecasting is not feasible, but only a "warning".

The Division of Weather Forecasting reported that international relations were much improved during the past year. The Meteorological Hydraulic Service took part in the Zurich conference on radiosonde service, where Soviet delegates were present after attending the Prague conference. Relations with USSR were tightened and a teletype Potsdam-Prague established.

Weather keys parts II, III and IV were published, and the weather service networks has been extended by telephone lines outfitted with local batteries over Greifswald-Arkona, Schwerin-Boizenburg, Potsdam-Magdeburg, Magdeburg-Gardelegen, Gardelegen-Salzwedel, Potsdam-Berlin, Magdeburg-Halle, Potsdam-Rummelsburg, Weimar-Erfurt. Decimeter-wave communications were temporarily discontinued.

The private telephone of the Meteorological Hydraulic Service was discontinued because of lack of funds, and therefore private teletype became necessary.

The maps used for forecasting were Europe and Middle Europe maps.

Radio equipment used by the stations is intended to be modernized, because the operating equipment dates from 1925.

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(Part two of two)

50X1-HUM

16 heads of divisions and 19 invited guests participated

The following reports were read.

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Physicist Lanius reported on special high altitude rocket investigations of high-energy interaction of primary components of cosmic rays.

Meteorologist Hering discussed determination of drift of pilot balloons by use of Molchanov's equipment, which facilitates reading of horizontal distance from the vertical projection of the balloon.

Dr Beelitz spoke on pressure and temperature measurements in rockets and radiosondes, stated that altitudes defined by temperature and pressure depend on the composition of the air mixture and, particularly, on molecular weight; the plotting of a standard curve of temperature up to 220 km was discussed.

Meteorologist Klinkow suggested the full or partial elimination of temperature reports at 12 km altitudes for jet fliers since these reports are not sufficiently accurate.

Meteorologist Fett attempted to establish a relation in space-time coordinates between the time-altitude diagram of an ascending radiosonde and the time-altitude diagram of horizontal solar radiation.

Other topics included: corrections of the radiation error of DDR radiosondes; new ideas on the prevention of radiation loss; batteries for radiosondes; inertia effects of hygrometers at low temperatures and of hygrometers of radiosondes; tests of radiosonde balloons made of Sovpren-Latex; climbing velocities of radiosondes; tests of balloons and of their production methods, etc.

Conclusions were made that meteorologists be freed from technical and administrative duties, which should be cared for by technicians. Other conclusions pertained to changes in organization and selection of personnel, to social security in old age, insurance against accidents, to general measures of economy, among other to prohibition of filling of toy balloons with H_2 .

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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SECURITY INFORMATION

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COUNTRY East Germany
SUBJECT Weather Service and Radiosondes
in East Germany

REPORT

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1. ☐ Comment. A brief glossary of technical terms and abbreviations

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|---|---|
| Ausnahmehauptanschluss | Priority telephone connection |
| BGL (Betriebsgewerkschaftsleitung) | Factory local of the East German trade organization |
| FA (Fachabteilung) | Division |
| HWL-Stelle (Hauptwetterdienststelle) | Main meteorological station |
| MHD (Meteorologisch-hydraulischer Dienst) | Meteorological hydraulic service |
| MPF (Ministerium fuer Post- & Fernmeldewesen) | Ministry for Post and Telecommunications |
| OB-Leitung | Telephone line fitted with local battery |
| RSA (Radiosondendienst) | Radiosonde service |
| RVG-906 | Type designation for a decimeter wave set |
| SHL (Seehydrologischer Dienst) | Sea hydrologic service |
| SWD (Seewetterdienst) | Sea weather service |
| WAD (Wetterauskunftsdiens) | Weather information service |
| Wd-Stelle (Wetterdienststelle) | Weather service point |

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| STATE | ARMY | NAVY | AIR | FBI | AEC | | |
|-------|------|------|-----|-----|-----|--|--|

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